



Class IV/V Supply Point Operations



AGENDA



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Who Runs the Class IV/V Supply Point?



The Class IV/V supply point is the central receiving point of obstacle material in the TF sector. It is the point at which the TF receives and transfers control of obstacle material pushed forward by higher levels. The supply point is established and operated by the TF and is centrally located to support all planned obstacles within the TF sector. Where the tactical obstacle plan allows, the supply point should be located near the TF combat trains to better facilitate C2 and the availability of equipment.

FM 90-7, Appendix C



Methods of Resupply



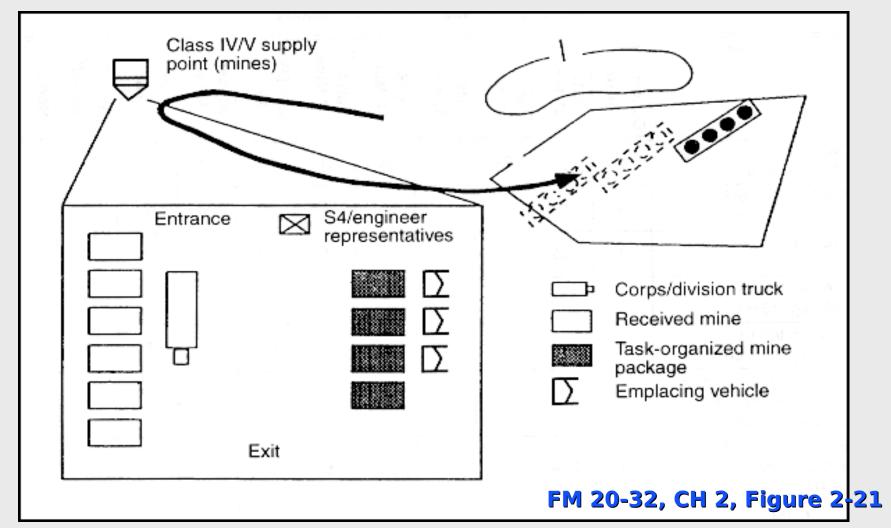
- Supply Point
- Service Station
- Tailgate

FM 20-32, CH 2



Supply Point Resupply







Supply Point Resupply



ADVANTAGES

- Minimizes unloading and loading of material.
- Requires minimal augmentation of haul assets.
- Allows manpower and equipment to be massed at a single supply point.
- Streamlines C 2 of material.

FM 20-32, CH 2



Supply Point Resupply



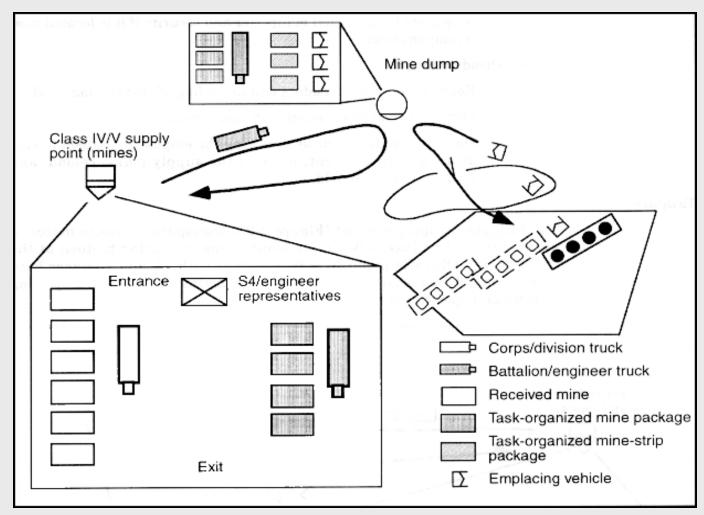
DISADVANTAGES

- Requires more movement of the platoon, which may take away from emplacement time.
- Requires that the platoon move in and out of the area where the minefields are being emplaced increasing the risk of fratricide.
- May disrupt the emplacement of individual obstacles when emplacing vehicles cannot carry enough material to start and complete the obstacle. This causes emplacing vehicles to stop work, reload, and pick up where they left off.
- □ Requires a larger Class IV/V supply point that is capable of receiving mass quantities of obstacle Material Hard multiple loading platoons simultaneous MIN THE FORCE



Service Station Resupply







Service Station Resupply



ADVANTAGES

- Allows prestockage of obstacle material to keep pace with emplacement.
- Minimizes the distance and the amount of time the emplacing platoon must travel to reload.
- May provide additional manpower and security if it is located near a company/team.

FM 20-32, CH 2



Service Station Resupply



DISADVANTAGES

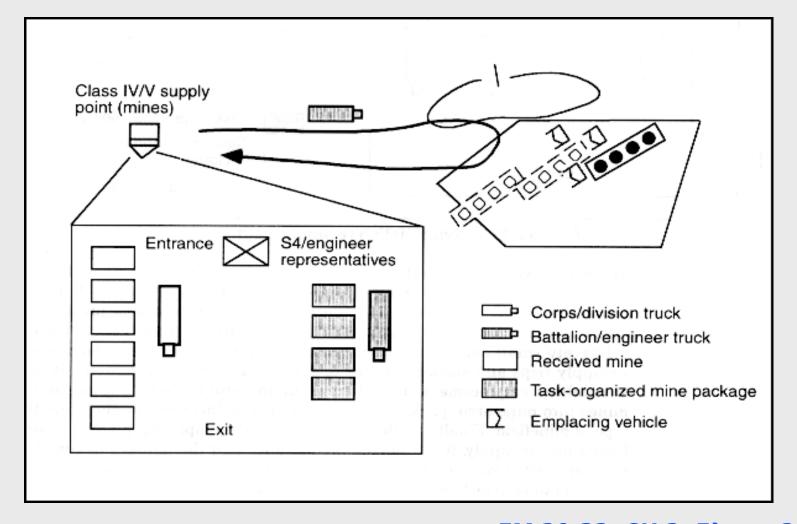
- Requires additional loading and unloading of obstacle material.
- May require augmentation with haul assets.
- Disrupts emplacement by requiring the emplacing platoon to stop obstacle emplacement, move to the supply point, reload, and return to the minefield.

FM 20-32, CH 2



Tailgate Resupply







Tailgate Resupply



<u>ADVANTAGES</u>

- Minimizes loading and unloading of obstacle material.
- Allows engineers to break contact rapidly in the event of enemy attack without losing obstacle material to the enemy.
- Minimizes the movement of platoons in and out of the minefield (suitable for limited visibility).

FM 20-32, CH 2



Tailgate Resupply



DISADVANTAGES

- Requires augmentation by high-capacity transportation assets that are capable of offsetting the loss in turnaround time if the vehicle has to wait at the obstacle site.
- May result in inefficient use of haul assets.
- Complicates C2 in linking mine transport assets with emplacing engineers since the engineers continue emplacement.
- Causes task-organizing of minefield packages to be conducted concurrently with loading. FM 20-32, CH 2



Resupply Rules



- Mines should be uncrated at the Class IV/V supply point to preserve transportation assets going forward.
- Mines are task-organized into minefield packages at the Class IV/V supply point.
- Transportation from the Class IV/V supply point to the mine dump is a shared engineer and maneuver unit responsibility when a mine dump is used.
- Mines are inspected and prepared at the last supply node (Class IV/V supply point or mine dump) before they are loaded onto an emplacing vehicle or a mine-delivery system.
- Class IV/V supply points are set up using authorized ammunition procedures and distance requirements.



Class IV-V Point Location Considerations



- **►**Carrying Capacity
- Traffic Circuit
- Camouflage and Cover
- Defense
- Time
- Operators, Leaders, and Soldiers

FM 20-32, CH 2



Reguirements-Based Resourcing



1	2	3	4	5	6	7	В	9	10	11	12	13	14	Conversion of PHs Into Engineer Units
Zone	Belt	Effect	Resource Factor	AA Width	Linear kms	MF Frontage	# MFs	Mines/ MF	PHs/ MF	Mines Req	PHa Req	Mines/ Zone	PHs/ Zones	
А	1	Disrupt	0.5	5	2.5	250	10	126	1.5	1,260	15	3,276	89	2 platoons = 1 engineer company for 2 days
	2	Disrupt	0,5	4	2.0	250	8	126	1.5	1,008	12			
	3	Diarupt	0,5	4	2.0	250	8	126	1.5	1,008	12			
В	1	Fix	1.0	4	4.0	250	16	147	1.5	2,352	24	5,860	60	3 plateons – 1 engineer company(+) for 2 days
	2	Fix	1.0	6	6.0	250	. 24	147	1.5	3,508	36			
С	1	Block	2.4	3	7.2	500	15	630	5.0	9,450	75	18,900	150	8 platoons = 4 engineer companies for 2 days
	2	Block.	2.4	3	7.2	500	18	63D	5.0	9,450	75			
p	1	Block	2.4	3	7.2	500	15	630	5,0	9,450	75	26,082	203	10 plateons = 5 engineer companies for 2 days
	2	Block	2.4	4	9.6	500	20	630	5.0	12,600	100			
	3	Turn	1.2	3	3.5	500	8	504	3.5	4.032	28			
Ε	-	Disrupt	0.5	4	2.0	200	10	FSO determines exact requirements for artillary delivered RAAMS/ADAM to						
F	1	Disrupt	0.5	4	2.0	200	10	support either Obstacle Zone E or F.						
G	1	Fix	1.0	4	4.0	278	16	80 NA 640 Air Volcano; division contrets assets. Mine canisters quantities are in canisters.						

FM 90-7, Appendix C



Planning Factors



Number of Personnel	Quantity of Mines	Required Equipment		
2-man team (2 minutes per mine)		Shears, metal cutting Grease, automotive and artillery Rags Work gloves Flashlight Night-vision goggles Pliers		
Squad (7 soldiers and an NCO)				
Platoon (with leadership)	1 , ,			
Company	10,800 mines per day			

NOTE: Soldiers work 50 minutes per hour, 12 hours per day.

FM 20-32, CH 2, Table 2-4



Personnel Requirements



Personnel	Responsibilities
TF S4/S4 NCOIC	Provides overall C ² and Class IV/V
	accountability
	Coordinates for MHE
	Is assisted by the RTO
TF engineer	Supervises organization of Class IV/V material
representative	into packages to support obstacle groups
	Provides technical assistance on Class IV/V supply-point setup and mine uncrating and inspection
Infantry squad*	Downloads incoming Class V trucks
Infantry squad*	Downloads incoming Class IV trucks
Infantry squad*	Uploads outgoing Class IV/V trucks
Two infantry squads*	Uncrates and inspects mines
Support PL/PSG	Provides C ² for cross loading of Class IV/V material
Infantry squad*	Provides local security for the Class IV/V supply point

^{*} or equivalent-sized element from a supported unit





- ABE Plans and resources obstacle belts
- ABE Converts standard obstacles to BDE CCLs
- BDE CSS Planner converts BDE CCLs to Corps CCLs
- BDE CSS Planner requisitions Corps CCLs
- TF ENGR Plans obstacle groups and identifies resource shortages
- TF ENGR converts shortages to BDE CCLs
- TF CSS Planner requisitions shortages from BDE
- TF ENGR Identifies TF CL IV/V supply point location and provides to BDE to start flow of CL IV/V supplies
- TF Staff plans for TF CL IV/V supply point operation





- Upon receipt of the order, the TF S4 coordinates with TF EN and selects on the map the proposed location for the TF's Class IV/V Point.
- This point must be in a secure position using METT-T, and should be established one terrain feature behind the proposed obstacle effort.
- Give this grid to the CSS Planner/ BDE S4 immediately, so that he can begin pushing Class IV/V forward.





TF S4 Planning Considerations

- W ork Detail
- E quipment
- L ift Assets
- C ommunications
- Organized Yard Layout
- M edical Support
- E ngineer Expertise
- S ecurity



Class 14/4 - "A Yyay"



Work Detail TINCOIC and 20 Soldiers

- Unloading crew: downloads from Corps throughput assets.
- Uncrating crew: uncrates mines, inspects, configures BDE Push Packages.
- Loading crew: uploads onto TF transportation assets for transport to forward mine dumps.



Class 11/1/ - "A 1/31/"



<u>Equipmen</u>

- **<u>t</u>** Banding Machine and Material.
 - Wire Gauntlets For Each Soldier.
 - Tin Snips, Crow Bars, Engineer Tape.
 - Marking Material to layout Site:
 - Bicycle Flags or HEMMS Poles.
 - Engineer Tape.
 - Green and Red Chemlights.
 - Picket Pounder
 - Warm up/ Sleep Tent.





Lift Assets

- TF S4 Requests FORKLIFT and Additional Transportation Assets from the BSA.
- FSB SPO Provides a FORKLIFT. Priority to the Main Effort TF Class IV/V Point.
- Leaders must ensure FORKLIFT operator has NVGs to conduct night operations.





Communications

- TF S4 maintains communications with TF TOC.
- Engineer Representative maintainscommunications with Engineer Platoons and COTOC.





Organized Site Layout



BACKHAUL OF PACKING MATERIAL



THROUGHPUT DOWNLOAD





CORPS









TF S4 REP

WORK AREA FOR TF PERSONNEL AND MHE









BRIGADE











PLATOON UPLOAD







Medical Support

- TF S4 Coordinates for Medical Support and develops an Evacuation Plan.
- TF Class IV/V Point NCOIC maintains list of Combat Lifesavers in workgroup, and battle roster numbers of all personnel at point.



Class 14/4 - "A Yyay"



Engineer

Expertise

- Engineer Representative will provide technical expertise:
 - Push Package Configuration.
 - Oversees Proper Handling of Mines, Fuses, and Anti-Handling Devices.
 - Monitors and records quantities of Class IV/V in the Class IV/V point.



Class 14/4 - "A Yyay"



<u>Security</u>

- TF S4 selects Class IV/V Point location that can be easily defended against both mounted and dismounted troops.
- TF S4 develops and enforces the Site Security Plan.
- TF will provide Security Force for the Class IV/V Point.





Assigning Responsibilities

- TF S4
- Engineer
- Representative
- **I FSB SPO**





TF S4

- ➤ Requests forklift and additional transportation assets from the BSA.
- Requests additional CL I and III to support CL IV/V point operations.
- Tracks and accounts for the flow of CL IV/V supplies in and out of the supply point.
- Ensures that CL IV/V supplies are properly stockpiled.
- Coordinates for medical support and develops an evacuation plan.
- Ensures tin snips, crow bars, banding machine, banding material, and engineer tape are on site.
- Inventories and maintains accountability of all materials that enter and exit the site.
- Communicates with TF.





Engineer Representative

- Ensures all mines, fuses, wire, and pickets are separated and properly configured into packages.
- Establishes and maintains radio communication with engineer platoons and engineer company TOC.
- Monitors and records quantities of Class IV/V in the Class IV/V point.



Class 14/4 - 44 14314"



FSB SPO

Provides lift assets to TF Class IV/V points. Lift will arrive with the initial delivery of wire and mines. Priority of lift assets go to main effort Class IV/V Point.





Marking the Class IV/V Point

